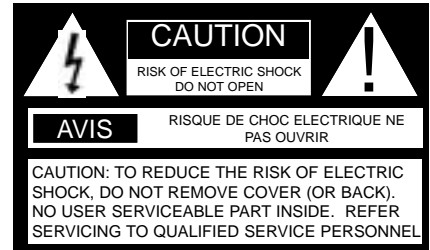# Safety Precautions

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS — RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PART INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

WARNING: **DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DUE TO THE HIGH RISK OF FIRE OR ELECTRIC SHOCK, DO NOT OPEN THE CABINET DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT THIS.**

CAUTION: **TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, AND FULLY INSERT.**

ATTENTION: **POUR EVITER LES CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOUD.**

CAUTION: This Digital Video Disc Player employs a Laser System. To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. **DO NOT STARE INTO BEAM.**

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location, or contact APEX Digital Inc. Only qualified service personnel should remove the cover.

FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant with the FCC Rules, Part 15. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates,uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions,may cause harmful interference to radio communication,However,this is no guarantee that interference will not occur in a particular installation.If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on,the user is encouraged to try to correct the interference by one of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:To assure continued compliance,(example-use only shielded interface cables when connecting to computer or peripheral devices).Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING: Changes or modifications made to this equipment, not expressly approved by APEX or parties authorized by APEX will void all the manufacture warranties.
THE REGION CODE FOR THE UNIT IS 1.

CLASS 1 LASER PRODUCT
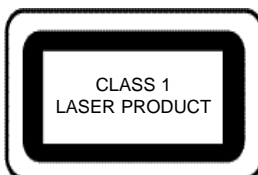
Since it is very usual for DVD movies to be released at different times in different regions of the world, all players have region codes and disks can have an optional region code. If you load a disk of a different region code to your player, you will see the region code notice on the screen. The disk will not play, and should be unloaded.

For Customer Use:
In spaces provided below, record the Model and Serial No. located on the rear panel of your HT-100.

Model No. _____ **Serial No.** _____

Retain this information for future reference.

Safety Information

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Please carefully study this manual and always keep it available. There are, however, some installation and operation precautions which you should be aware of.

1.Read Instructions - All the safety and operating instructions should be read before the product is operated.

2.Retain Instructions - The safety and operating instructions should be retained for future reference.

3.Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.

4.Follow Instructions - All operating and use instructions should be followed.

5.Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Exception: A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the product in the cleaning description otherwise required in 131.8(5).

6.Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7.Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8.Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9.A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10.Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11.Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12.Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings - This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature, If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13.Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14.Protective Attachment Plug - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

15.Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size or grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

16.Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17.Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

18.Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19.Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20.Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21.Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or damaged in any way, and

f. When the product exhibits a distinct change in performance - this indicates a need for service.

22.Replacement Parts - when replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23.Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24.Wall or Ceiling Mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Introduction

Thank you for purchasing our APEX DIGITAL DVD Home Theater System with AM/FM Tuner. With it, you will be able to enjoy full length DVD movies with true cinema picture quality, and stereo multichannel sound. A unique DVD feature on this system AFF, APEX Full Screen Function allows you to view widescreen movie presentations in full screen mode via remote control. What's more, Parental Control lets you decide which discs your children will be able to see. Your Player supports audio CD's, video CD's and the new MP3 format.

You will find your player remarkably easy to use, by way of the On-Screen Display (setup menu), player display and wireless remote control.

UNPACKING

When shipping the Home Theater System, the original shipping carton and packing comes in handy. For maximum protection, repack the unit as it was originally packed at the factory.

First check and identify the contents of your HT-100 package, as listed below:
- DVD Home Theater Tuner/Amplifier
- Remote control handset
- RCA cables (3) (1 yellow, 1 red, and 1 white)
- Owner's manual
- Size AAA batteries (2)
- AM loop antenna (1)
- FM wire antenna (1)
- Speakers (5) with speaker cord
- Subwoofer (1) with speaker cord

If any item should be damaged or missing, please inform your dealer without delay.

Keep the packaging materials, you may need them to transport your player in the future.

WHERE TO LOCATE YOUR DVD

A. Place the unit on a firm, flat surface.
B. When you place the HT-100 near other units, the playback picture may become poor and/or distorted. In this situation, move the HT-100 further away from them.
C. Keep away from direct sunlight & domestic heating equipment.
D. If placed in a cabinet, please allow at least 2.5 cm (1 inch) of free space all around the player for proper ventilation.

TO OBTAIN A CLEAR PICTURE

The HT-100 is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality may become poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

Notes on Discs

HOW TO HANDLE, CLEAN, AND STORE DISCS.

HANDLING DISCS
- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.

CLEANING DISCS
- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as a thinner, benzine, commercially available cleaners or anti-static spray for vinyl LP's. It may damage the disc.

STORING DISCS
- Do not store discs in places subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

PLAYABLE DISCS

This HT-100 can play back the following discs.

	Disk Mark	Contains	Disc Size	Maximum playback time
DVD video disc	DVD VIDEO	Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
Video CD	COMPACT disc DIGITAL VIDEO	Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CD	COMPACT disc DIGITAL AUDIO	Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes
MP3 CD	MP3	Audio	12 cm	Approx. 600+ minutes

NOTES ON REGIONAL NUMBERS

DVDs are divided into separate regions. Your DVD video player plays region 1 DVDs only. It will also play all region VCDs.

SELECTING THE TYPE OF DISC COMPATIBLE WITH YOUR TV

Both DVD discs and Video CDs (VCDs)have material recorded in either PAL or NTSC format. Refer to the table below to select the disc type compatible with your TV.

The type of Connected TV	Disc	TV Monitor
Multi-system	PAL	Played in the PAL system.
	NTSC	Played in the NTSC system.
NTSC	PAL	No clear images are shown on the screen.
	NTSC	Played in the NTSC system.
PAL	PAL	Played in the PAL system.
	NTSC	No clear images are shown on the screen.

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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

It is forbidden by law to copy, broadcast, play in public, and rent copyrighted material without permission. DVDs are copy protected and any recorded copies made will be distorted.
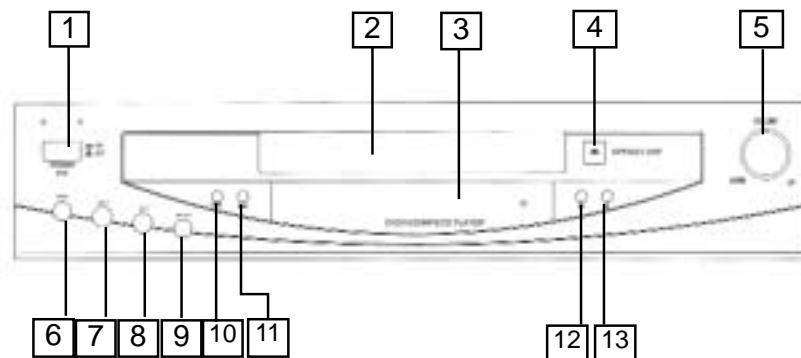
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation,and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corp. Reverse engineering or disassembly is prohibited.

Table of Contents

Identification of Controls

FRONT PANEL

1	POWER ON/OFF	8	MIC 2
2	DISC LOADING TRAY	9	MIC VOL
3	DVD DISPLAY	10	PREV
4	OPEN/CLOSE	11	NEXT
5	VOLUME	12	PLAY
6	ECHO	13	STOP
7	MIC 1		

REAR PANEL
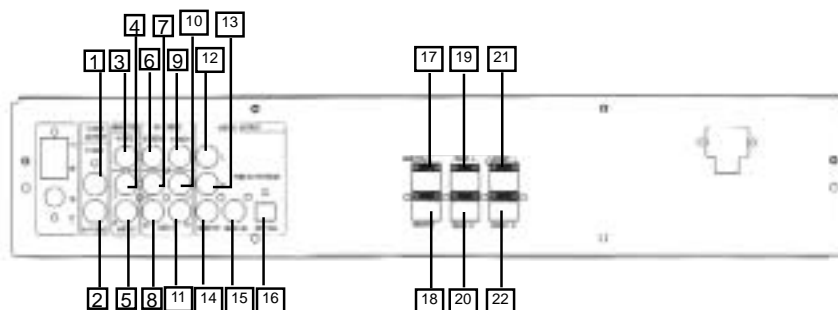
1	COMPOSITE VIDEO OUTPUT	8	AV AUDIO INPUT2 R	16	OPTICAL OUTPUT
2	S-VIDEO OUTPUT	9	AV VIDEO INPUT1	17	CENTER SPEAKER
3	AV VIDEO OUTPUT	10	AV AUDIO INPUT1 L	18	WOOFER SPEAKER
4	AV AUDIO OUTPUT L	11	AV AUDIO INPUT1 R	19	REAR L SPEAKER
5	AV AUDIO OUTPUT R	12	ANALOG AUDIO OUTPUT L	20	REAR R SPEAKER
6	AV VIDEO INPUT2	13	ANALOG AUDIO OUTPUT R	21	FRONT L SPEAKER
7	AV AUDIO INPUT2 L	14	ANALOG SUBWOOFER OUTPUT	22	FRONT R SPEAKER
		15	DIGITAL AUDIO-COAXIAL OUTPUT		

Remote Control

THE INSTRUCTIONS IN THIS MANUAL DESCRIBE
THE FUNCTIONS ON THE REMOTE CONTROL.

1. POWER (PAGE 18)

2. NUMBERS (PAGE 25)

3. CLEAR (PAGE 30)

4. FAST REVERSE (PAGE 18, 24)

5. FAST FORWARD (PAGE18,24)

6. SETUP (PAGE 17,32,35,36)

7. DIRECTION KEYS (PAGE 18,20,24, 25,28,32,35,36)

8. ENTER (PAGE 20,23,25,28,32,35,26)

9. 3D (PAGE 23)

10. VOLUME(+,-) (PAGE 17)

11. REPEAT (PAGE 26)

12. A-B REPEAT (PAGE 26)

13. SLOW REVERSE (PAGE 22)

14. SLOW FORWARD (PAGE 22)

15. PBC (PAGE 25,27)

16. PROGRAM (PAGE 30)

17. FUNCTION (PAGE 17)

18. ENHANCE (PAGE 28)

19. OPEN/CLOSE (PAGE 18)

20. MUTE (PAGE 33)

21. TITLE (PAGE 24,25)

22. MENU (PAGE 25,27)

23. ANGLE (PAGE 29)

24. SUBTITLE (PAGE 31)

25. GOTO (PAGE 25)

26. FORWARD SKIP (PAGE 17,21,24,26)

27. PREVIOUS SKIP (PAGE 21,24,26)

28. RETURN

29. EQUALIZER (PAGE 23)

30. PLAY (PAGE 19,20,21,22,24,30,32)

31. PAUSE/STEP (PAGE 20)

32. STOP (PAGE 20,22,35)

33. DISPLAY (PAGE 34)

34. AUDIO (PAGE 29,33)

35. L/R

36. ZOOM (PAGE 28)

37. SHUFFLE (PAGE 27)

38. VOLUME MODE (PAGE 17)

39. FM/AM/AFF

NOTES

• Please turn the master power switch on the HT-100. Power button on this remote control unit is for standby power only.
• **MUTE**- Cut off sound momentarily. Press again to reinstate sound.
• **VOLUME-** controls the audio output from the HT-100.
  (VOLUME control is only available in audio analogue output status.)
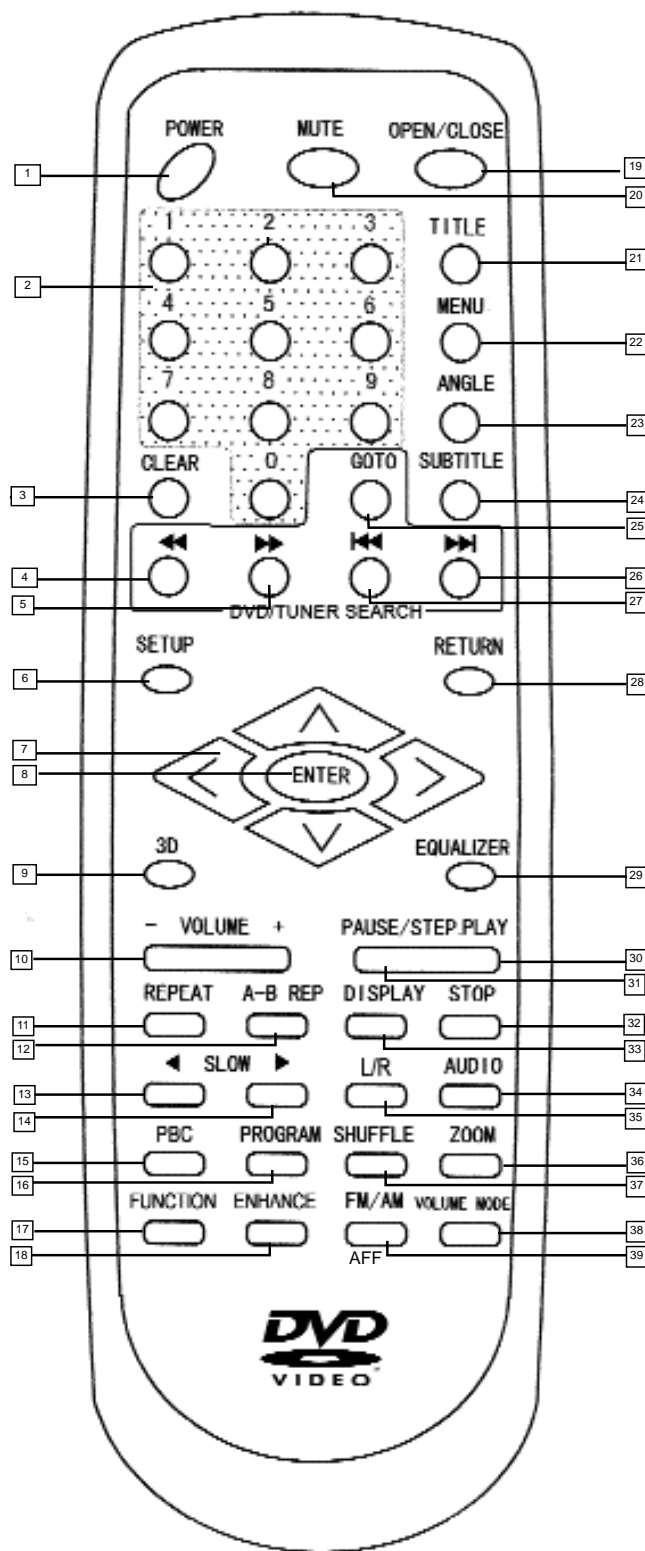
PREPARING THE REMOTE CONTROL

To operate the HT-100, you must first place the batteries in the remote control.

1

Open the cover.

2

Insert batteries (AAA size).
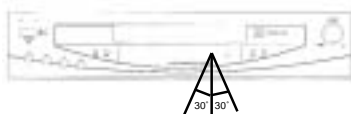*Make sure to match the + and - on the batteries to the marks inside the battery compartment.*

3

Close the cover.

OPERATING WITH THE REMOTE CONTROL

Operating HT-100 with the remote control.

1

The remote control must point at the remote sensor, in order for the HT-100 to function correctly.

Distance: Maximum of 7 m from the front of the remote sensor.
Angle: Approximately 30˚ from each direction.

*Please do not place the remote sensor towards any light source such as direct sunlight or illumination. The HT-100 will malfunction, if you do so.

NOTICE (BATTERIES)

FOLLOW INSTRUCTIONS BELOW BECAUSE INCORRECT USE OF BATTERIES MIGHT CAUSE THEM TO LEAK OR CORRODE.
• Do not place the batteries in the wrong direction.
• It is dangerous to charge/heat/open or short-circuit the batteries.
• Do not leave dead batteries or mix old/new batteries in the remote control.
• When not using the remote control for a long duration of time, remove the batteries.
• When difficulties occur, with the remote control, or if the operating range becomes reduced, then replace the batteries.
• If leakage from the battery occurs, wipe the battery liquid from the battery compartment, then replace the batteries.

NOTICE (REMOTE CONTROL)

• The remote control should be aimed directly towards the remote sensor of the HT-100.

Connecting to a TV

Setting up your player

Step1:Connect the RCA Audio cables (red & white) from audio outputs of the HT-100 to the TV Audio Inputs.

Step2:Connect the yellow cable from the VIDEO output on the back of your player to the TV Video Input. (For TVs that support S-Video Output please follow the diagram to the right.)

GOOD

Yellow

Red   White

TV Video Input   TV Audio Input

BETTER

Red   White

TV S-Video input
(Optional Cable)   TV Audio Input
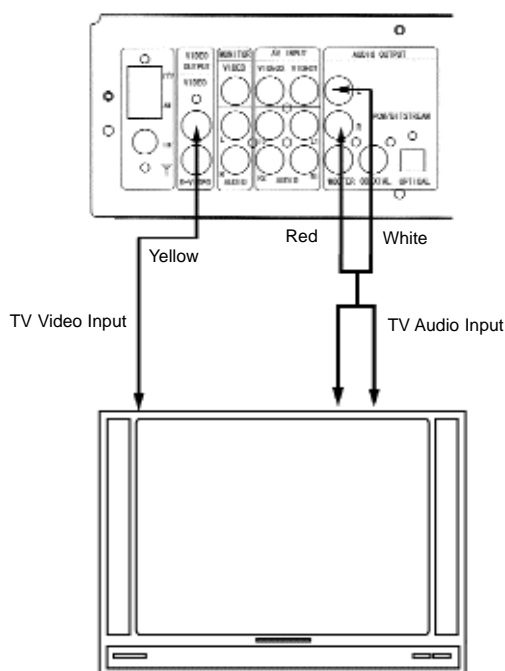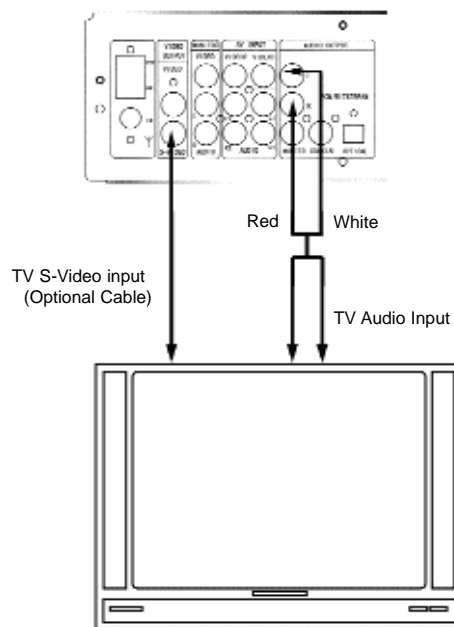
Connect the HT-100 with an optional S-Video cable, if the TV has an S video input. Do not connect the yellow video cable if using the S Video cable.

NOTICE

• Turn off the power and unplug before setting up any connections.

• If your TV only has a cable antenna connection and no video inputs to connect your TV to the HT-100, you will need to purchase an RF adapter from your dealer. See store for details.

Connecting to Optional Equipment

To VIDEO OUT   To Digital Audio Out

HOW TO SETUP THE DIGITAL AUDIO OUTPUT

1. Press the **STOP button** then Press **Setup button** on the Remote Control.

2. Press the **Right Arrow Key** button to highlight the **Audio setting** and press the **Enter** button to select.

3. Select **DOLBY DIGITAL/DTS Analog Out** column using the **Down Arrow Key**. Make sure the display is set to **Off**.

4. Select **DOLBY DIGITAL/DTS Digital Out** Column,press the **Enter button** continually unit it displays **RAW**.

5. Press **Setup** again to **Exit**.
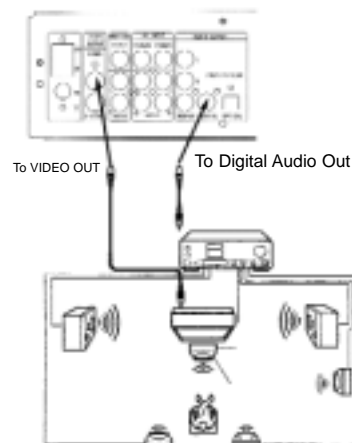
NOTICE

• Do not connect the PCM/BITSTREAM jack of the HT-100 to the AC-3 RF input of a Dolby Digital receiver. Instead, connect to the "DIGITAL" or "COAXIAL" input of a Dolby Digital/DTS receiver or Processor. The input of the A/V receiver is not compatible with the PCM/BITSTREAM jack and is primarily for Laserdiscs only.

• Connect the PCM/BITSTREAM jack of the HT-100 to the "DIGITAL" or "COAXIAL" input of a Dolby Digital/DTS receiver or Processor.

• Refer to the manual of the connected TV.

• Turn off the power and unplug both units before setting up any connections.

• Due to the wide dynamic range of sound output of the HT-100, adjust the volume of your receiver to a comfortably modest listening level to avoid any speaker damage.
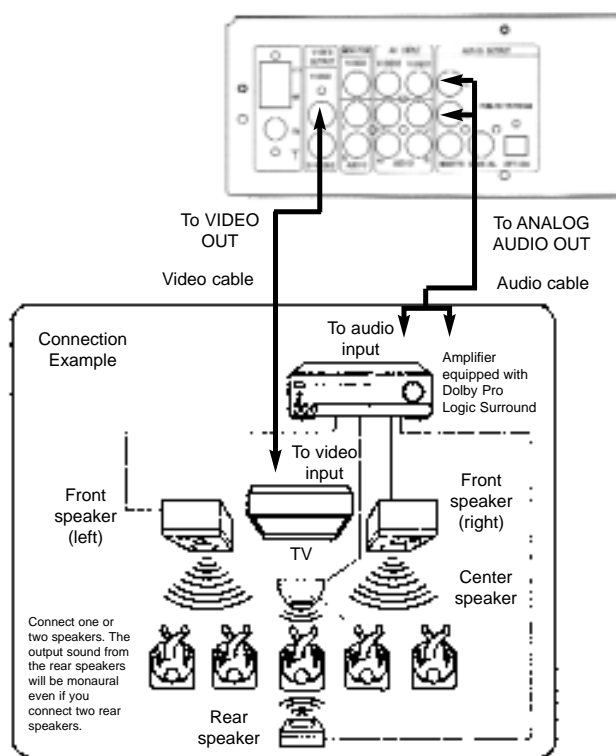
Connecting to Optional Equipment

WARNING

Enjoying Dolby Pro Logic Surround Sound

Dolby Pro Logic Surround

Enjoy the dynamic realistic sound of Dolby Pro Logic Surround by connecting a Hi-Fi Stereo VCR.
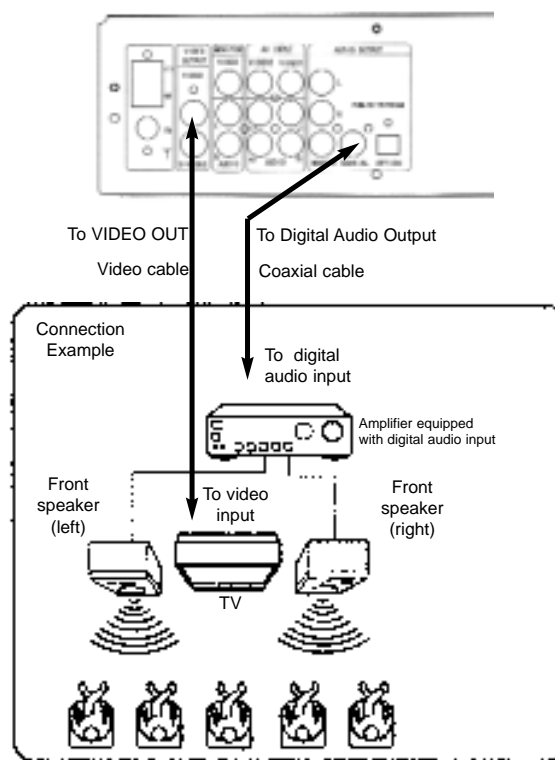
To VIDEO OUT

To ANALOG AUDIO OUT

Video cable

Audio cable

Connection Example

To audio input

Amplifier equipped with Dolby Pro Logic Surround

To video input

Front speaker (left)

Front speaker (right)

TV

Center speaker

Connect one or two speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

Rear speaker

Set "AUDIO " to "Analog Out" via the setup menu.

Enjoying Digital Stereo Sound (BETTER)

Digital Stereo

Enjoy the dynamic sound of Digital Stereo by connecting an amplifier equipped with a digital audio input.

To VIDEO OUT

To Digital Audio Output

Video cable

Coaxial cable

Connection Example

To digital audio input

Amplifier equipped with digital audio input

Front speaker (left)

To video input

Front speaker (right)

TV

Set "AUDIO " to "Digital Out" via the setup menu.

NOTE
- Refer to the manual of the connected TV.
- Turn off the power and unplug both units before setting up any connections.
- Due to the wide dynamic range of sound output of the HT-100, adjust the volume of your receiver to a comfortably modest listening level to avoid any speaker damage.

Connecting to a TV using a RF Modulator

Many older televisions do not have the newer component-video, composite-video, or s-video connections that optimize DVD technology. While it would be advised to purchase a newer television in order to take full advantage of the digital quality of DVD's, it is possible to connect an older television to a DVD player. This connection requires a device called an RF modulator.

First, it is necessary to ascertain whether or not your TV needs a RF modulator. Look at the back of your TV. If you see three input connectors lined up in a row, in the colors of yellow, red, and white, then you will not need an RF modulator. If you see a connector labeled "s-video", then you will not need an RF modulator. If you do not have either of these connectors, then you will need to purchase an RF modulator from the store where you purchased your Apex Digital DVD player or other home electronics retailers.

Older televisions use a coaxial connection, which combines all of the video signal from an exterior source into a single line. This line is then translated by your TV into the picture you see. The RF modulator combines the output signals from the DVD player, or any other device, into the coaxial connection for use by your television.

Below are written and pictorial instructions on the proper way to connect an RF modulator to your Apex DVD player and your TV.

Connection 1

Connecting the TV to the DVD through the VCR

Note: All VCRs will distort the picture of a DVD player. This is NOT a malfunction of the DVD player or VCR. All DVD manufacturers are required to install macrovision copyright circuitry to prevent copying via VCR. This is what causes the distortion.

1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

Figure 1

5) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4.
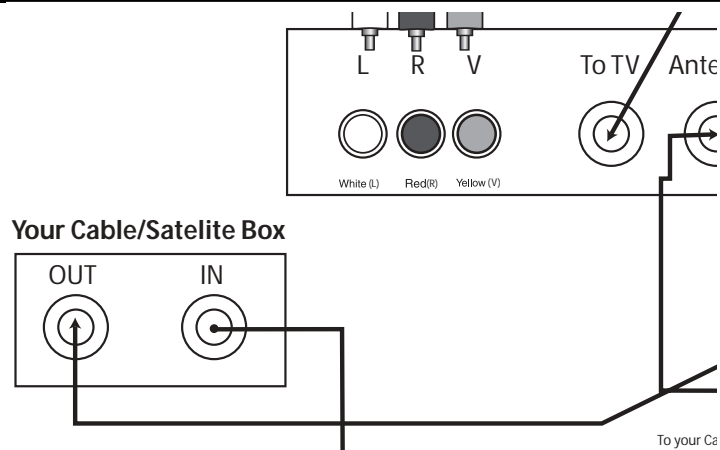
Connection 2

Connecting the TV to the DVD through the Cable or Satellite Box

Figure 2

1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your Cable or Satellite receiver to the "Antenna" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

5) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4.

Connection 3

Connecting the TV , DVD, VCR, and Cable or Satellite Box

Figure 3

1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your cable or satellite receiver to the "Antenna In" jack on the back of your VCR. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator.
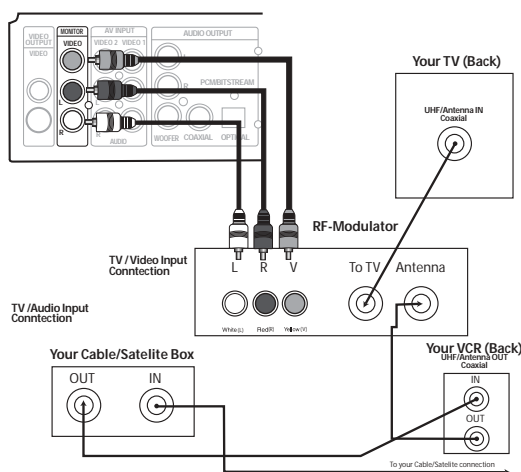
5) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

6) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4. Also make sure that the VCR is set to the appropriate channel, as well. This selector is usually on the back of your VCR. Consult your VCR manual for further information.
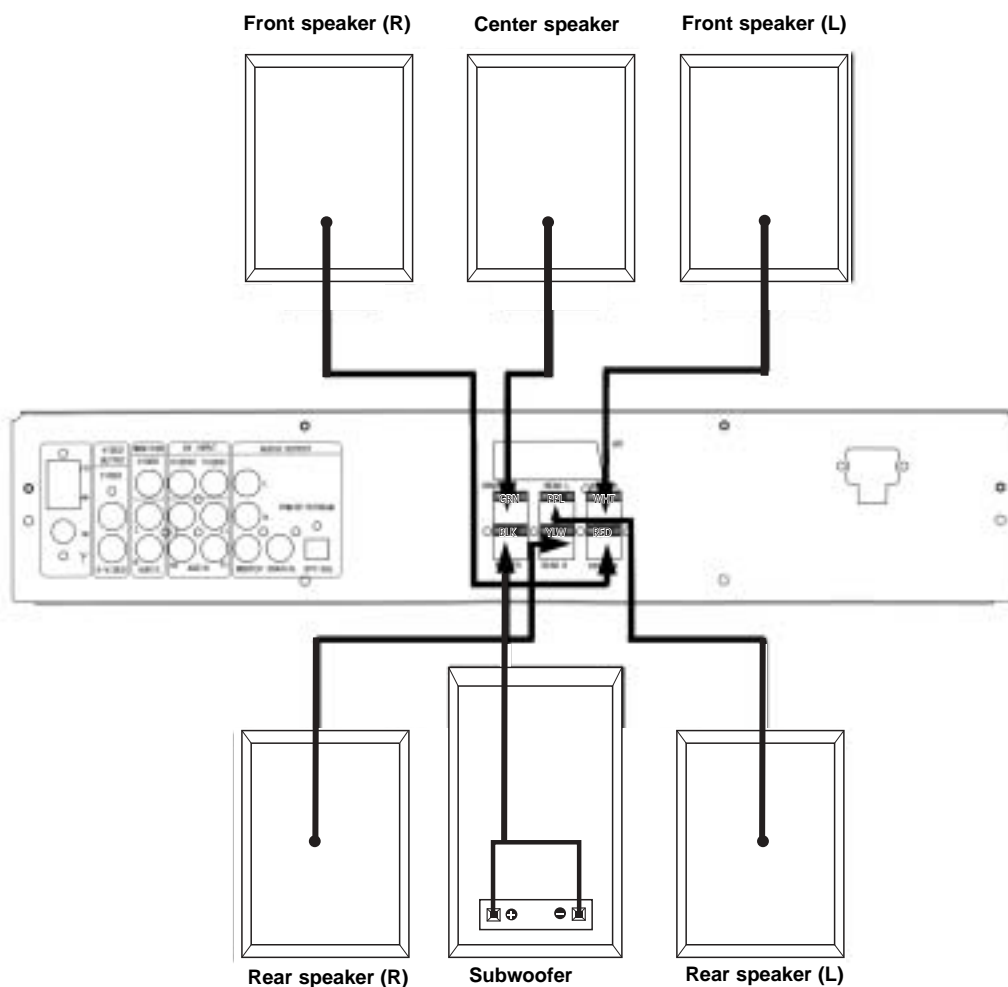
Speaker System Hookup

Connect the supplied speaker system using the supplied speaker cords by matching the colors of the terminals.

NOTE: Speakers are not wall-mountable. Speaker stands are recommended and available at your local retailer.

Required cords

Your speaker connection is made easy by matching the color coded speaker terminal to the color coded terminals on the back of the HT-100.

Front speaker (R)   **Center speaker**   **Front speaker (L)**

Rear speaker (R)   **Subwoofer**   **Rear speaker (L)**

Antenna Hookups & HT-100/AV Amplifier Connection for AV Input

Antenna Hookups

Connect the supplied AM/FM antennas for listening to the radio

**AM loop antenna
(supplied)**

**FM wire antenna
(supplied)**
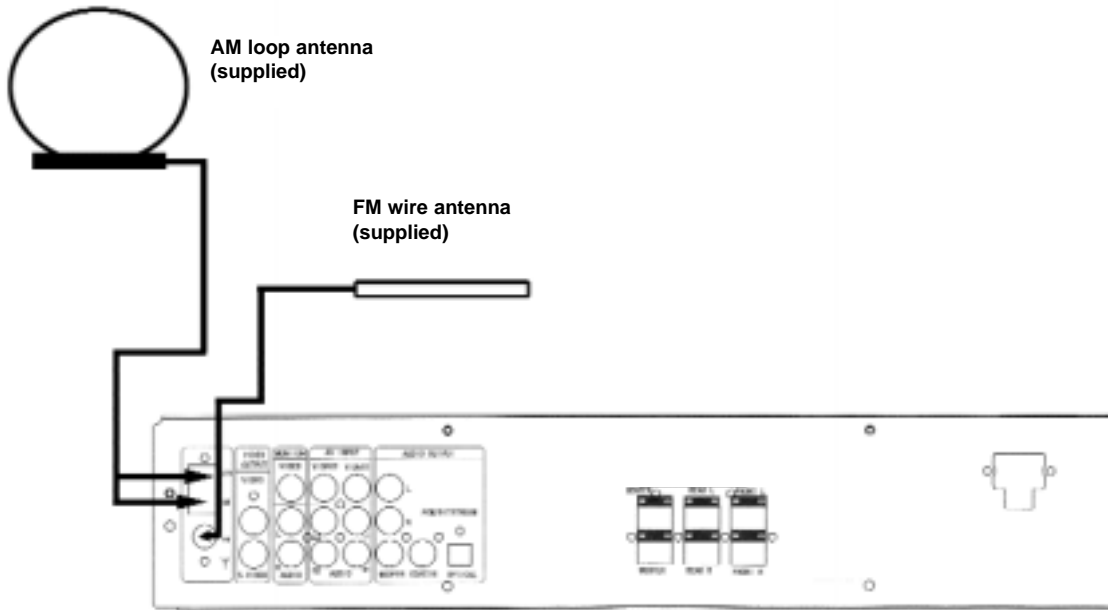
HT-100/AV Amplifier Connection for AV Input

The HT-100 allows you to connect other audio/video equipment to playback through the speaker system.

For AV1:

External Source:

TV INPUT

Video

Video

L

L

R

R

For AV2:

External Source:
(such as VCR)

TV INPUT

Video

Video

L

L

R

R
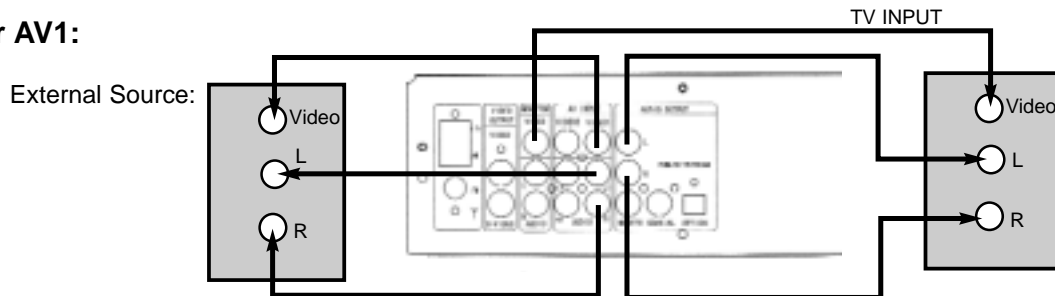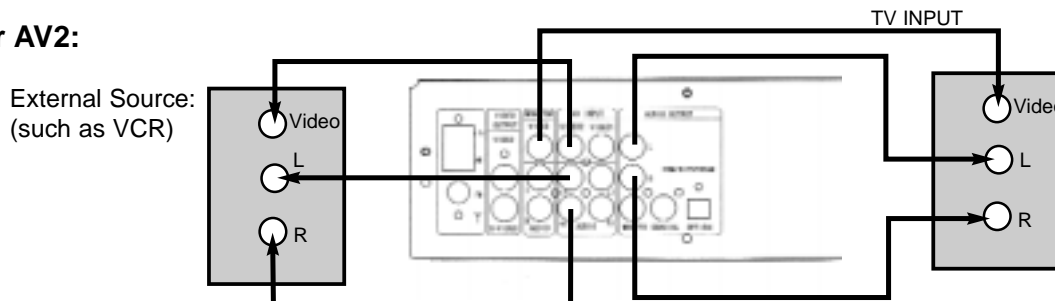
Amplifier Volume / AM/FM Tuner Settings / AV 1 & 2

Amplifier Volume Control

1. On the front panel, ALL Channels are simultaneously adjusted by using the Volume control.
2. On the Remote Control, press **VOLUME -** and **VOLUME +** to adjust the volume.
3. To adjust each speaker channel volume separately, press **VOLUME MODE**. Current level is displayed on screen. Continue to press **VOLUME MODE** to access and adjust surround channels, center channel, subwoofer channel or all channels.

AM/FM Tuner Settings

1. The default setting status of the HT-100 is DVD Playback.
2. To access the radio tuner press **FUNCTION** button. (Each press will access in order: DVD—>Tuner—>AV1—>AV2—>DVD)
3. To change FM or AM band, press **AM/FM** button on remote control while in Tuner Mode.
4. Connect the supplied FM & AM Antennas.
5. To enter a station frequency directly, use number key. (IE. 94.7Mhz —press 947). If unwanted, press **CLEAR** button.

Storing Channels in Memory

Read thoroughly before attempting to store any radio stations. Ht-100 stores 50 FM and 20 AM stations.
1. Press GOTO from the remote control. The tuner will automatically search and store all local stations with good signal strength.
2. Press ＜／＞to scan back or forward to a desired radio station with good signal strength. To scan in increments press the ∧／∨direction keys.
3. Press ⏮ ⏭to select stored frequencies in sequential order.
4. To number your stored numbers, press SETUP, input the station number, then press SETUP again.

AV1 / AV2 With Pro Logic

The HT-100 allows for the hookup of other Audio/Video components such as a VCR or Satellite System. Refer to the manual that accompanies each Audio/Video component.

NOTE

When using a Hi-Fi Stereo VCR, Pro Logic Decoding is available.

MP3 Operation

You can play an MP3 CD.

Insert an MP3 CD, the HT-100 will initialize the disc and the directory will be displayed on the TV screen.

```
MP3_____Track1/119  00:00:32

    1   TRACK01              8    TRACK08

    2   TRACK02              9    TRACK09

    3   TRACK03              10   TRACK10

    4   TRACK04              11   TRACK11

    5   TRACK05              12   TRACK12

    6   TRACK06              13   TRACK13

    7   TRACK07              14   TRACK14
```

1. Press ◁/▷ to select the column of MP3 files.
   Press ∧/∨ to select the MP3 file on a list of columns.
2. Press number buttons 0-9 to select the track you wish to select then press ENTER. The player will play the selected track.
3. Press ENTER to play the MP3 file. Press ▶▶ or ◀◀ during playback to skip the tracks. To return to the main directory, press MENU button.

NOTICE

• Fast Forward ▶▶ or ◀◀ Fast Reverse are not available during MP3 playback.

• The menu will refresh when you select a track using the ∧/∨/◁/▷ buttons on the remote control.

Playing Back a Disc

HOW TO PLAYBACK A DISC.

Basic Playback (see page 10 -16 for connections details)

How to playback DVD or VIDEO CDs
• Turn on the TV and choose the video input source that is connected to the HT-100.

How to enjoy the sound from the audio system
• Turn on the audio system and choose the input source.

1. Press the POWER button displayed on the front panel.

The POWER indicator will illuminate, as the HT-100 turns on.

POWER

2. Press the OPEN/CLOSE button.

OPEN/CLOSE

This will open the disc tray.

Notice
• A disc may be damaged if it is not correctly placed on the guides in the disc tray, this may also cause the HT-100 to malfunction.
• Do not force or place anything other than DVD video disc, VIDEO CD, audio CDs, or MP3 CD on the disc tray.

3. Place the disc on the disc tray.
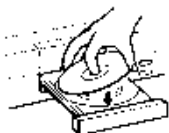
With the playback side down.

PLAY

4. Press PLAY

After closing the disc tray playback will start.
As the HT-100 is reading the disc, a menu will appear on screen.

Notice
• Refer to the "On Video CD" for the playback control (PBC) of the VIDEO CD
• The menu screen will appear automatically or you may access the menu screen by pressing the TITLE button.

NOTICE
   • Moving the HT-100 during DVD playback may cause damage to the disc as well as the player.
   • To open and close the disc tray, you may only use the OPEN/CLOSE button on the remote control or HT-100.

FOR A HIGHER QUALITY PICTURE

DVD discs produce a high resolution picture. This may cause some picture artifacts on the TV during playback. The artifacts will vary depending on the TV used with the DVD video player. To control picture artifacts reduce the sharpness setting on your TV when viewing DVD discs.

ABOUT DVD VCD CD

DVD VCD CD icons will appear depending on the disc being played back.

DVD: DVD video discs
VCD: Video CDs
CD: Audio CDs
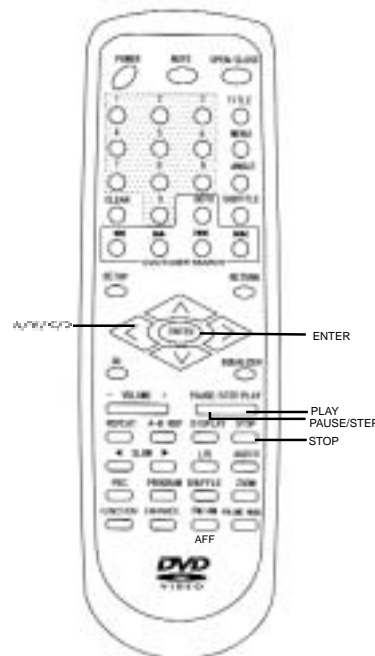
HOW TO START PLAYBACK FROM THE MENU SCREEN

1. Press ∧/∨/</> or the number buttons to select the title.

ENTER

Title 1   Title 2

Title 3   Title 4
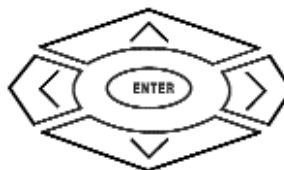
2. Press the PLAY button.
The HT-100 will start playback from the title selected.
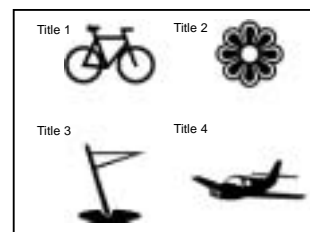
PLAY

HOW TO PAUSE PLAYBACK AND PLAY FRAME BY FRAME (STILL PLAYBACK)

Press the PAUSE once during playback, then press the PLAY button to resume normal playback.
Press the PAUSE twice during playback, the picture will advance one frame each time ,then press PLAY buttons to resume normal playback.
During the still playback the sound is muted.MP3 CD does not have frame by frame feature.

PAUSE/STEP.PLAY

HOW TO STOP PLAYBACK

Press the STOP button.
The HT-100 is stopped.
Press the PLAY button to replay.
Press the STOP button twice then press the PLAY button.
The HT-100 returns to chapter 1
or track 1.

STOP
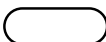
NOTICE

At the completion of each movie a menu screen will appear. Be aware that the on-screen setup menu may damage your TV by permanently burning that image onto the screen. To avoid this, press the STOP button at the completion of each movie. You may also decide to setup the SCREEN SAVER.

Continued

ADVANCED PLAYBACK

The HT-100 allows you to playback discs at various speeds. You may also resume playback from the location where you stopped playback.

| ▶▶ x2 | ▶▶ x4 | ▶▶ x8 | ▶▶ x20 |

| ◀◀ x2 | ◀◀ x4 | ◀◀ x8 | ◀◀ x20 |
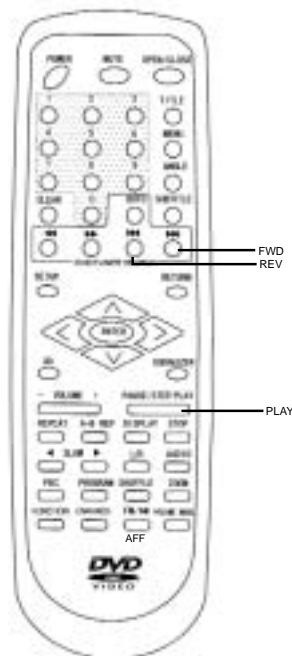
PLAYING AT X2, X4, X8 OR X20 THE NORMAL SPEED

You can play back a disc at x2, x4, x8 or x20 the normal speed.

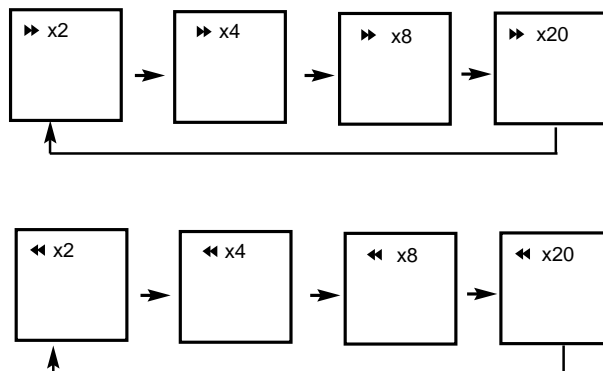**Press the REV or FWD button during playback.**
The playback speed becomes 2x the normal speed.
The playback speed changes, each time you press the REV or FWD button.
REV: Fast reverse ◀◀
FWD: Fast forward ▶▶

TV SCREEN

▶▶ x2 → ▶▶ x4 → ▶▶ x8 → ▶▶ x20

◀◀ x2 → ◀◀ x4 → ◀◀ x8 → ◀◀ x20

TO RESUME NORMAL PLAYBACK.
Press PLAY.
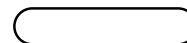
PLAY

• Video CD, Audio CD
The rewind or forward playback alternates between x2, x4, x8, x20 speed.

NOTICE

• The HT-100 will not playback sound and subtitles during scan reverse and forward playback of DVDs. The HT-100 will play sound during fast forward or fast reverse playback of audio CDs.
• The speeds may vary slightly from disc to disc. x2,x4,x8, and x20 speeds are only approximate speeds.
• MP3, CD and select DVD's may not function.

PLAYING IN SLOW-MOTION

A disc can also be played back in slow-motion.
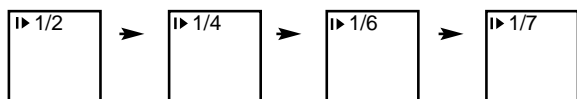
| ▶ 1/2 | ➤ | ▶ 1/4 | ➤ | ▶ 1/6 | ➤ | ▶ 1/7 |

Press the SLOW button during playback
The playback speed becomes 1/2, 1/4, 1/6,or 1/7 each time you
press the SLOW button.

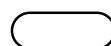**TO RESUME NORMAL PLAYBACK.**
Press PLAY.
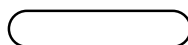
PLAY

SLOW
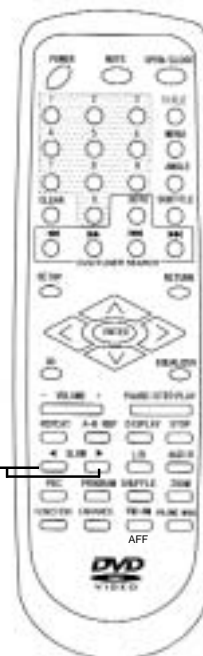
NOTICE

- During the slow-motion playback, the sound is muted.
- MP3 CD/CDDA and select discs may not function.
- VCD only offers forward slow-motion playback.

RESUMING PLAYBACK FROM THE SAME LOCATION

Stop playback and resume later from the same location on
the disc.

STOP

1. Press the STOP button
This will interrupt the playback and the HT-100 will memorize the
location where you stopped.

PLAY

2. Press the PLAY button
The HT-100 will resume the playback from the location where you
stopped.

PLAY
STOP

AFF
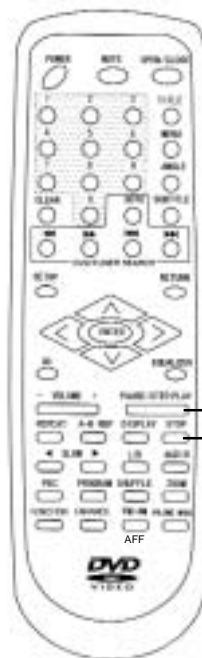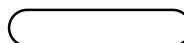
NOTICE

- The following actions will cancel the RESUME function:
- Unplugging the HT-100 after you stop playback.
- Ejecting the disc.
- Adjusting/changing the parental lock or selecting a different language setting.
- On occasion depending on the disc, you may experience a difference of location where playback resumes.
- MP3, CDs do not utilize this function.
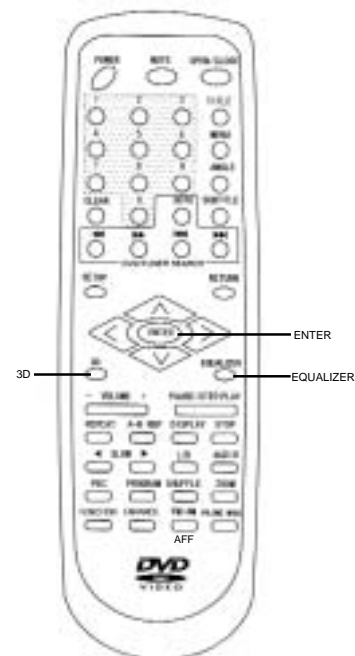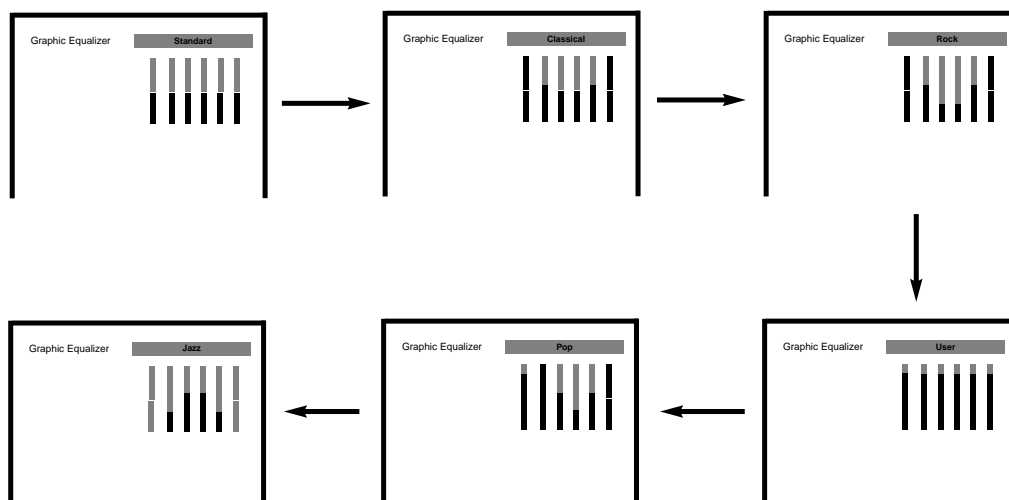
Digital EQ/ 3D Surround

DIGITAL EQUALIZER

Selecting Your Equalizer (Note: Digital EQ does not work on DVD's.)
1. Press the **EQUALIZER button** on the Remote Control.
2. Select the between modes by pressing the **ENTER** button.
3. Exit the Equalizer menu by pressing the **RETURN** button on the remote.

This unique feature allows you to fine tune specific audio frequencies to adjust the sound quality for CD's and VCD's.

Press the EQUALIZER button during playback.

Graphic Equalizer	**Standard**	→	Graphic Equalizer	**Classical**	→	Graphic Equalizer	**Rock**

Graphic Equalizer	**Jazz**	←	Graphic Equalizer	**Pop**	←	Graphic Equalizer	**User**

ENTER

3D

EQUALIZER

AFF

Press ENTER to resume normal playback.

3D SURROUND SOUND EFFECTS

Create 3 levels of surround sound when the HT-100 is connected to a stereo TV or stereo system with only 2 speakers (left/right channels).

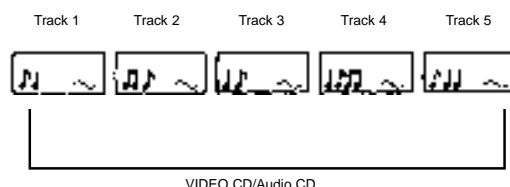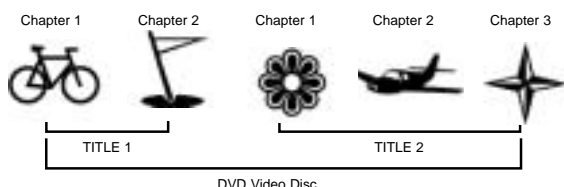Press 3D button, it will display as follows:

◻ ON

◻ OFF

Press L/R to select left or right channels and other sound effects:

Stereo ⟶ Left ⟶ Right ⟶ Mix

Locating a Specific Title, Chapter or Track

THE DVDs ARE NORMALLY DIVIDED INTO TITLES. THE TITLES ARE SUB-DIVIDED INTO CHAPTERS. MOREOVER, VIDEO CD, AUDIO CD AND MP3 CD ARE DIVIDED INTO TRACKS. YOU CAN CONVENIENTLY LOCATE ANY SPECIFIC TITLE, CHAPTER, OR TRACK WITH THIS DVD VIDEO PLAYER.

Chapter 1	Chapter 2	Chapter 1	Chapter 2	Chapter 3

TITLE 1	TITLE 2

DVD Video Disc

Track 1	Track 2	Track 3	Track 4	Track 5

VIDEO CD/Audio CD

LOCATING A TITLE USING THE TITLE MENU

You can locate a specific title using the title menu function, if a DVD video disc contains a title menu.

TITLE

1. Press the TITLE button
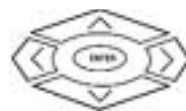On the TV screen, the title menu will appear.

2. Press the ∧/∨/</> button to select the title you want
You can also directly locate a specific title by pressing its assigned number with the number buttons.
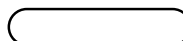
Title 1

Title 3

Example of a title menu.

3. Press the PLAY button
This will cause the HT-100 to start playback from chapter 1 of the title selected.
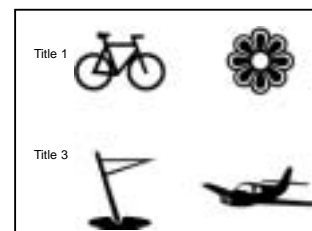
PLAY

NOTICE
• Some discs will not respond to this function.
• If different instructions appear on the TV screen, follow them. The instructions above are describing the basic procedure. Procedures may vary depending on the contents of the DVD video disc.

LOCATING A SPECIFIC CHAPTER OR TRACK

To locate consecutive chapters or tracks.

Press the SKIP ◄◄ or ►►I button repeatedly to display the requested chapter or track

The HT-100 starts playback from the selected chapter or track.

SKIP ◄◄   SKIP ►►I

How to locate preceding chapters or tracks
• When you press the SKIP ◄◄ button, the HT-100 starts playback from the beginning of the preceding chapter or track.

◄◄

How to locate succeeding chapters or tracks
• When you press the SKIP ►►I button, the HT-100 starts playback from the beginning of the succeeding chapter or track.

►►I

Notice: On some discs the titles may not display the sub-divided chapters.
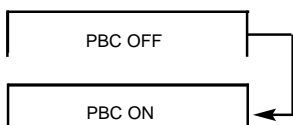
VIEW INDIVIDUAL CHAPTERS

1.If the VCD video disc contains different chapters, you can locate a specific chapter.

Press PBC .

```
┌─────────────────┐
│    PBC OFF       │
└─────────────────┘
┌─────────────────┐
│    PBC ON        │◄──
└─────────────────┘
```

PBC

◯

2.If the DVD video disc contains different chapters, you can locate a specific chapter.
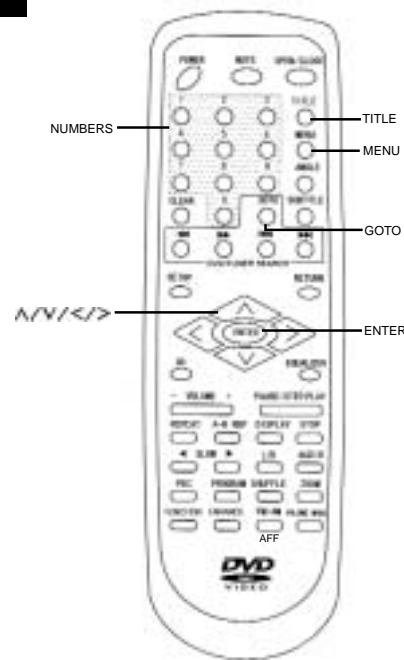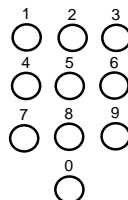
Press MENU.

3. Select chapter/track by numbers

The Player starts to play selected chapter.

• Return to normal playback, press PBC or MENU again.

NOTES

The DVD does not have the PBC feature,the VCD and certain DVDs do not utilize the menu feature.

NUMBERS — TITLE

MENU

GOTO

∧/∨/</> — ENTER

```
  1    2    3
  ◯    ◯    ◯
  4    5    6
  ◯    ◯    ◯
  7    8    9
  ◯    ◯    ◯
       0
       ◯
```

LOCATING A TITLE

If a DVD video disc contains title numbers, you can locate a specific title by directly selecting a title number.
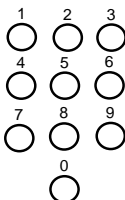
1. Press GOTO during playback
Make sure that the space next to TITLE is highlighted.

◯
GOTO

3. Press ENTER button
Playback starts from chapter 3 of the selected 2nd title.

2. Press numbers to select the title and chapter you want

e.g. To select title 2   (2)

```
  1    2    3
  ◯    ◯    ◯
  4    5    6
  ◯    ◯    ◯
  7    8    9
  ◯    ◯    ◯
       0
       ◯
```

```
┌─────────────────────┐
│ Search              │
│ Time        00:00:00│
│ Title/Chapter  _ _/_ _ _│
```

NOTES

• By pressing ∧/∨/</> you may shift the highlights between the TITLE and CHAPTERS. .
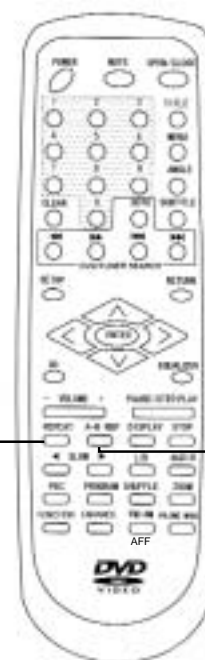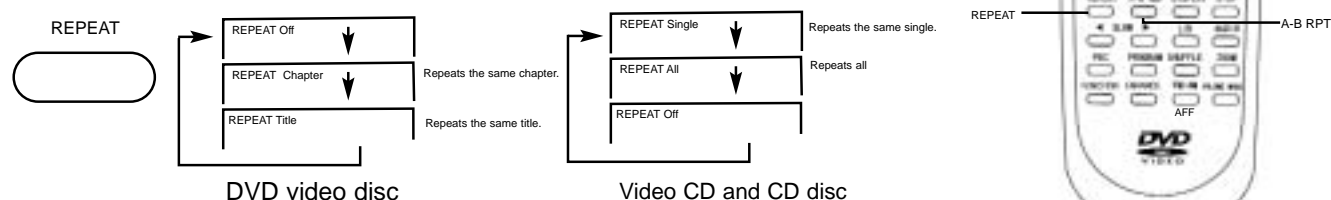
Playing Repeatedly

THE HT-100 ALLOWS YOU TO PLAYBACK A SPECIFIC TITLE, CHAPTER, TRACK, OR SEGMENT REPEATEDLY. (TITLE REPEAT, CHAPTER/TRACK REPEAT, A-B REPEAT)

HOW TO REPEAT A TITLE, CHAPTER, OR TRACK

1. Select the title, chapter, or track you wish to repeat

2. Press the REPEAT button
The repeat mode changes each time you press the REPEAT button.

REPEAT

| REPEAT Off |
| REPEAT Chapter | Repeats the same chapter. |
| REPEAT Title | Repeats the same title. |

DVD video disc

| REPEAT Single | Repeats the same single. |
| REPEAT All | Repeats all |
| REPEAT Off |

Video CD and CD disc

REPEAT ──── A-B RPT

HOW TO REPEAT A SPECIFIC SEGMENT

1. Press the A-B RPT button at the beginning of the segment you wish to repeat playback (point A)

A_   A-B REP

2. Press the A-B RPT button again at the end of the segment (point B)
The HT-100 will automatically return to point A and start to repeat playback of the selected segment (A-B).

B   A-B REP

3. Press the A-B RPT button to cancel the A-B repeat function
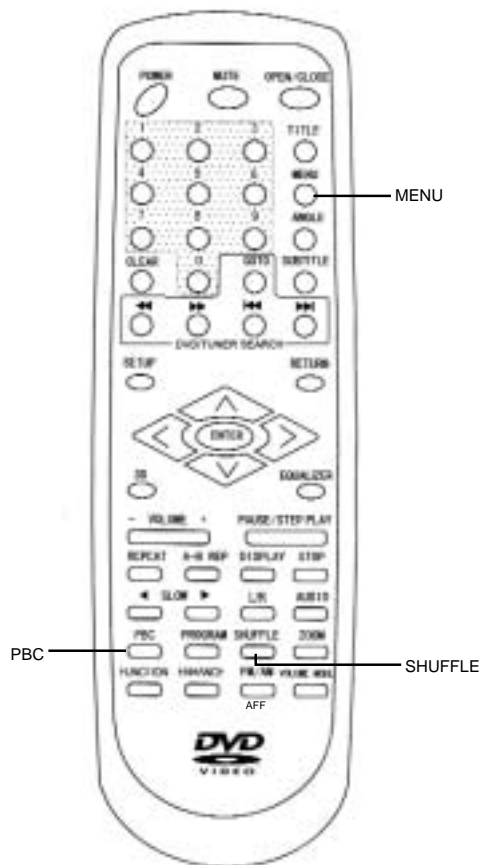The HT-100 will resume to normal playback.

Off   A-B REP
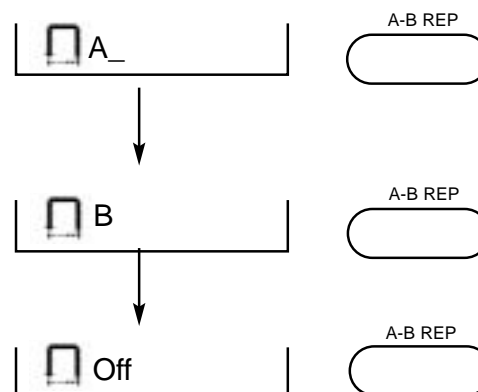
NOTICE
• Depending on the disc, you may experience a difference between point A and the location where playback actually resumes.
• If a segment allows for multiple camera angles, you can not set the A-B repeat function.
• Be aware that some discs will not respond to the A-B repeat function.
• MP3 does not utilize this feature.
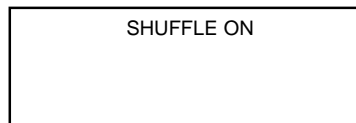
Playing in Random Order

THE HT-100 ALLOWS YOU TO PLAYBACK TITLES, CHAPTERS WITHIN A TITLE, AND TRACKS IN RANDOM ORDER.
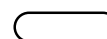
PLAYING TITLES IN RANDOM ORDER

The HT-100 will automatically choose the titles in a DVD and play them back randomly.
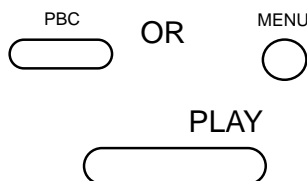
1. Press the SHUFFLE button .

SHUFFLE ON

SHUFFLE

The HT-100 will now start random playback.

TO RESUME NORMAL PLAYBACK.
Press PBC twice during stop, then press PLAY.

PBC   OR   MENU
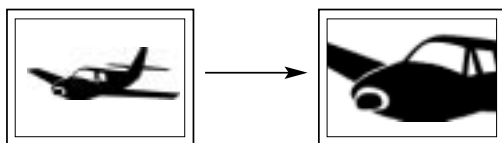
PLAY

MENU

PBC

SHUFFLE

AFF

NOTICE

• When the HT-100 is stopped while in the random playback mode, the memory playback function is cancelled.
• By pressing the skip ▶▶ button during random playback, the HT-100 will select another track.
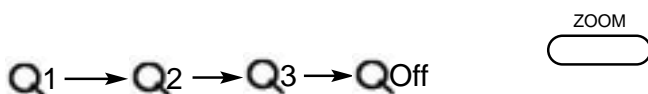
Zooming a Picture

ZOOMING A PICTURE

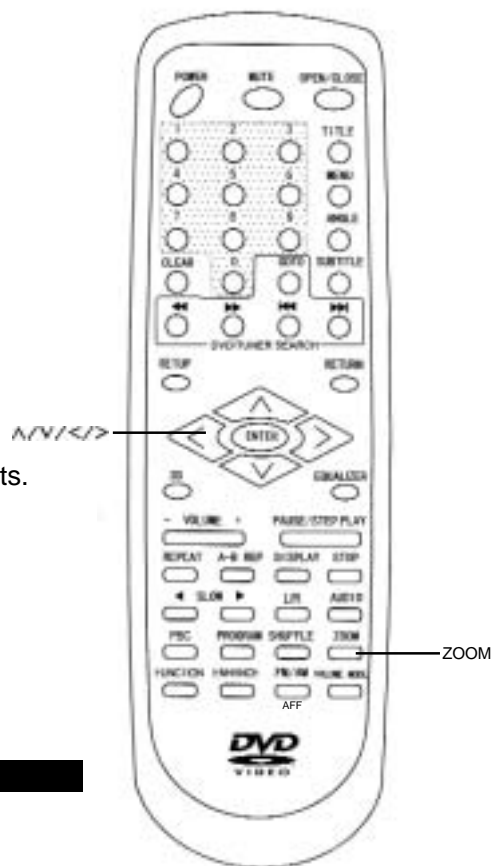Zoom into a picture or shift the zoom point.

Press ZOOM during normal playback or slow - motion.
The HT-100 magnifies in the center of the picture.

ZOOM

Q1 → Q2 → Q3 → QOff

If you press ∧/∨/</> during zoom playback, the zoom point shifts.

TO RESUME NORMAL PLAYBACK.
Press ZOOM during zoom playback.

ZOOM

∧/∨/</>

ZOOM
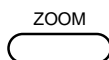
HOW TO ADJUST THE VIDEO EFFECTS

1. Press **ENHANCE** during normal playback.
2. Use the **Up/Down Arrow Keys** to select brightness or edges.
3. Press the **ENTER** button to scroll through the features in each category.
4. Press the **ENHANCE** button again to **Exit.**

Enhance Video

Brightness **Off**
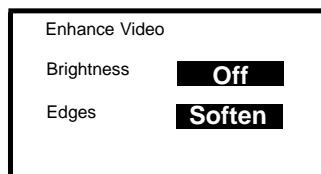
Edges **Soften**

ENHANCE

Select the Brightness(On/Off) and Edges(Soften/Sharpen) you prefer.

Selecting the Camera Angle/Selecting a Language

THE HT-100 ALLOWS YOU TO SELECT FROM SEVERAL DIFFERENT ANGLES AND LANGUAGES.

ANGLE 1   ANGLE 2

Selecting the camera angle

Good evening   Bonsoir   Buenas tardes

Selecting a language

HOW TO CHANGE THE CAMERA ANGLE

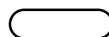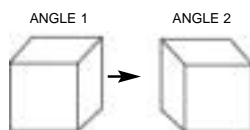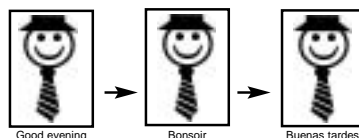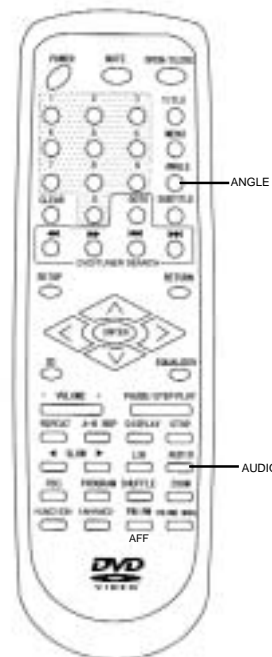If the DVD was recorded using the multiple angles feature, you have the option to change the camera angle of the scene you are watching.

Press the ANGLE button while playing back a scene recorded with multiple angles.
• You may only press the ANGLE button when the angle icon is flashing on the DVD display.
• Each time you press the ANGLE button, the angle will change.

ANGLE

1/4
2/4
3/4
4/4
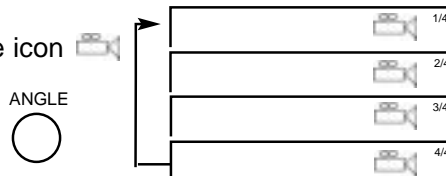
NOTICE
• The angle function will not work on DVDs that do not contain recorded multiple angles.
• During still playback, you are able to change the camera angle. However, when you resume to normal playback, the camera angle changes to the new settings.
• The angle icon indicator will illuminate while playing back a title that contains at least one scene recorded from multiple angles.

HOW TO SELECT A PLAYBACK AUDIO SETTING

The HT-100 allows you to select a preferred language and sound recording system from those included on the DVD video disc.

1. Press the AUDIO button during playback

1/2Eng [DD] 6ch   1/2Eng [DD] 2ch

AUDIO
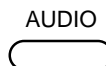
NOTICE
• The player returns to the initial default settings, when you turn on the HT-100 or replace a disc.

Playing in a Favorite Order

YOU MAY COMBINE YOUR FAVORITE TITLES, CHAPTERS, OR TRACKS AND PLAY THEM BACK IN ANY ORDER. YOU CAN PROGRAM UP TO 99 ITEMS INTO THE MEMORY. (PROGRAM PLAYBACK)

CLEAR

∧/∨/</>

PLAY

PROGRAM

HOW TO SET TITLES, CHAPTERS, OR TRACKS IN A FAVORITE ORDER

The program playback function will automatically playback titles, chapters, or tracks in the order preprogrammed.

1. Insert a disc and then press the PROGRAM button during PBC OFF.

PROGRAM
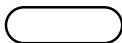
At this time, the menu will appear.

PROGRAM			Title/Chapter
1_ _ _ _	4_ _ _ _	7_ _ _ _	10_ _ _ _
2_ _ _ _	5_ _ _ _	8_ _ _ _	11_ _ _ _
3_ _ _ _	6_ _ _ _	9_ _ _ _	12_ _ _ _
clear All		Play Program	

2. Using the number button, select the items you want in the order you want them programmed in.

To reset program, press CLEAR.

CLEAR

3. Press the PLAY button

The HT-100 starts memory playback.

PLAY
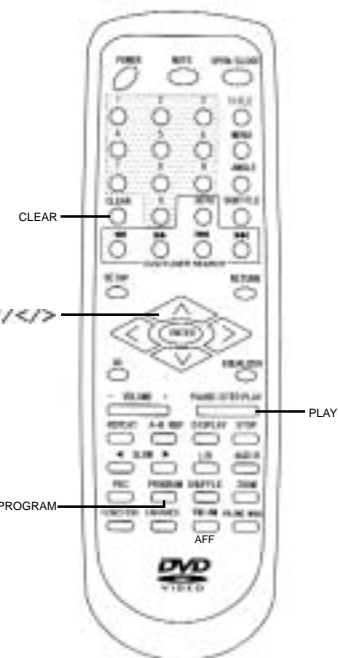
To CHANGE the programmed item:
Press the STOP button, then follow step 1.

To CANCEL the programmed item:
Select Clear All, then press the ENTER button.

To RESUME NORMAL PLAYBACK from memory playback
Press the PROGRAM button Select Clear All then press ENTER.The MEMORY indicator will disappear.Then press PLAY button to the normal playback.

NOTICE
   • When the HT-100 is turned off or discs are removed, the programmed item will be cancelled.
   • Depending on the disc, the program playback may not function.

Selecting Subtitles

THE HT-100 ALLOWS YOU TO DISPLAY THE SUBTITLES FROM THOSE INCLUDED ON THE DISC, ON TO YOUR TV SCREEN.

Good evening   Bonsoir   Buenas tardes
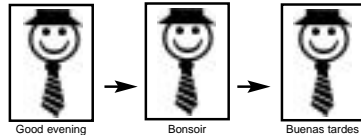
HOW TO DISPLAY SUBTITLES

You have the option to select a preferred subtitle from those included on some DVD video disc.

SUB-T

Press the SUB-T button during playback.

1/8Eng → 2/8Chi → 3/8Chi

6/8Fre ← 5/8Ger ← 4/8Jap

7/8Spa → 8/8Rus → Off

To TURN OFF the subtitles.

SUB-T

Press the SUB-T during playback until the subtitles disappears.

Off
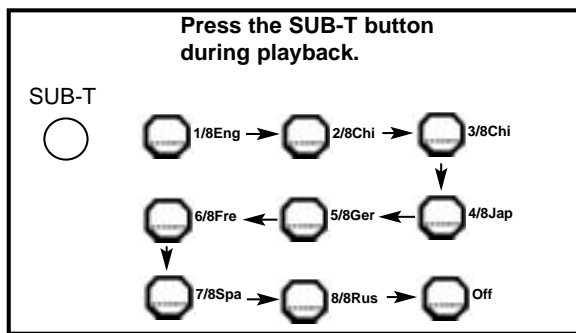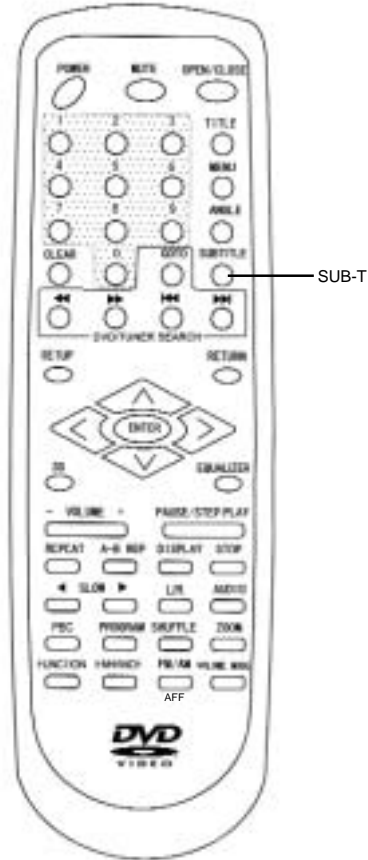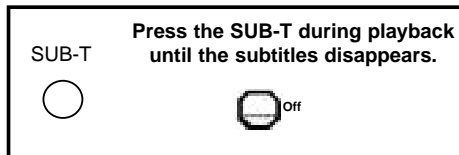
SUB-T

NOTICE
- Due to the nature of some DVDs, you may not be able to turn off the subtitles as they will appear on screen automatically.
- As you press the SUB-T button, the subtitles may not appear immediately during some scenes.
- If the subtitles continue to show on your TV even after the DVD has been turned off, refer to the TV's closed caption settings.

Karaoke

THIS DVD VIDEO PLAYER ALLOWS YOU TO ENJOY KARAOKE WITH ONE OR TWO MICROPHONES
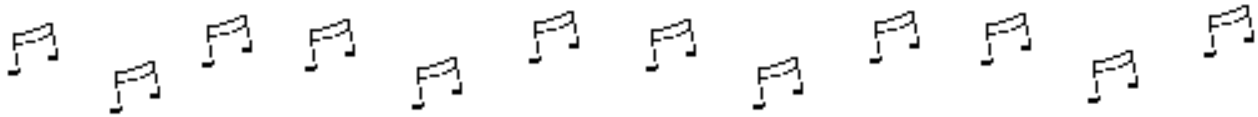
HOW TO SETUP THE KARAOKE

Make sure that the Karaoke disc is either a VCD Karaoke or a DVD Karaoke disc. These are the only two compatible formats that your DVD player will recognize.

1. Set the "AUDIO OUT" to "ANALOG OUT".

MIC LEVEL   ECHO LEVEL

-    +   -   +

2. Connect the microphone to MIC 1 or the MIC 2 jack.

1   MIC   2
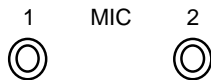
How to adjust the sound level and the echo level of the microphone(s):

Use the knobs on the face of the DVD video player to adjust the microphone sound level and the echo level of preference. MIC LEVEL knob controls the microphone(s) placed into the MIC 1 jack and the MIC 2 jack, as the ECHO LEVEL knob controls the echo level of the MIC 1 and the mic 2.

How to adjust the KEY level.
1.Press the SETUP button, then using the arrows on the remote, scroll to "KARAOKE SETUP"

SETUP

```
- - SETUP MENU  - -  MAIN PAGE
   GENERAL SETUP
   SPEAKER SETUP
   DOLBY DIGITAL SETUP
   KARAOKE SETUP
   LPCM SETUP
   PREFERENCES

   EXIT SETUP

   GENERAL SETUP
```
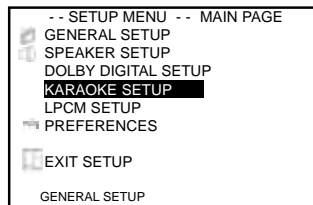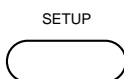
6. Press the ENTER/PLAY button to select the "KARAOKE MODE"
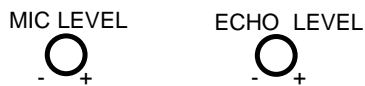
```
- - KARAOKE PAGE - -
   KARAOKE  MODE

   MAIN PAGE
```

3.Using the arrows on the remote, scroll to "KARAOKE".
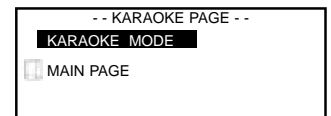
```
- - KARAOKE PAGE - -
   KARAOKE  MODE              OFF*
                              KARAOKE
   MAIN PAGE

   SETUP KARAOKE FEATURE
```
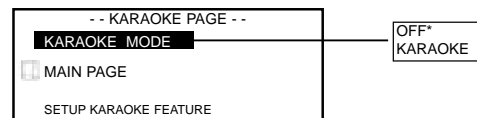
4.Press the ENTER/PLAY button.

ENTER

5.Press the SETUP button to exit the SETUP MENU
6.Press the KEY+,KEY- on the remote control unit to adjust the pitch.

How to turn the Karaoke function.
1.Adjust the MIC LEVEL and ECHO LEVEL to minimum using the MIC LEVEL and the ECHO LEVEL knobs.
2.Follow the step 1.
3.Select KEY SHIFT "OFF".
4.Press the SETUP button again, which will turn off key shift.
5.Disconnect the microphone(s).

NOTICE

• If you experience feedback or popping noises try the following:
- Keep the microphone(s) away from any speakers.
- Lower the sound level of the microphone.
- Lower the sound level volume of the speaker .

FUNCTIONS AVAILABLE IN THIS UNIT (SET WITH KARAOKE ON)

DVD video	VIDEO CD
• Echo adjustment • Key adjustment	• Echo adjustment • Key adjustment
• Sound selection	• Sound selection of left and right channel • Vocal cancel* • Vocal change*

*Vocal cancel:
Eliminates the vocal sound centered from the sound stereo-recorded in a VIDEO CD.

*Vocal change:
When your vocal is entered through the microphone, the vocal part recorded in sound-multiplex is eliminated and your vocal will be heard.

* For DVD Karaoke disc:
Press "AUDIO" for sound selection.

* For DVD, VCD Karaoke disc:
Press "MUTE" to eliminate sound and local. Keep the microphone on.

• The vocal cancel function may not work in some discs.
• The vocal change function works with a disc recorded in sound-multiplex.

Using the On-Screen Display

THE HT-100 ALLOWS YOU TO VIEW THE OPERATIONAL STATUS AND DISC INFORMATION ON TO YOUR TV SCREEN.

CHECKING THE OPERATIONAL STATUS

With this function, you can view the following on your TV screen:

-Type of disc
-Current title
-Track number
-Total playing time
-Audio
-Subtitle
-Angle

DISPLAY
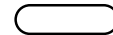
Press DISPLAY during playback

Current Time

00:04:09   00:21:05

Total Time

DVD   00:04:12   00:21:05
Title 1/1 Chapter 1/5   Angle 1/1
Audio   1/1   6ch
Subtitle   1/2Eng
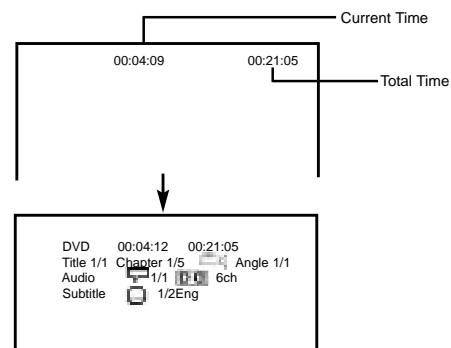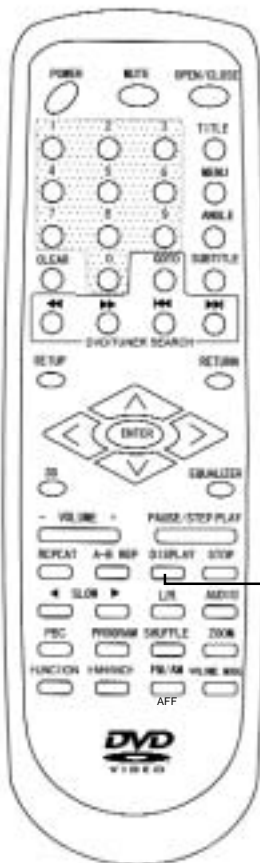
Total playing time of the disc is displayed in the DVD display.

DISPLAY

TO TURN OFF THE ON-SCREEN DISPLAY
Press DISPLAY Again.

DISPLAY

Setting the Parental Lock

YOU CAN USE THE PARENTAL LOCK FUNCTION ONLY WITH DVDS EQUIPPED WITH THE PARENTAL LOCK FEATURE.

3, 4, 5

STOP
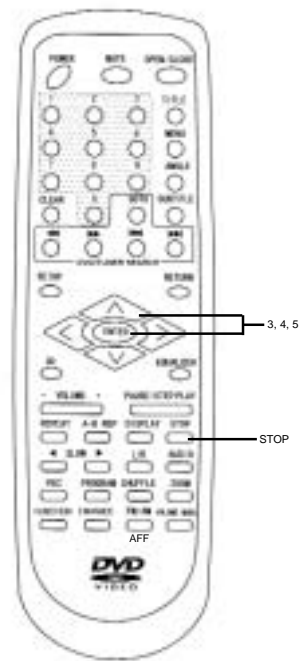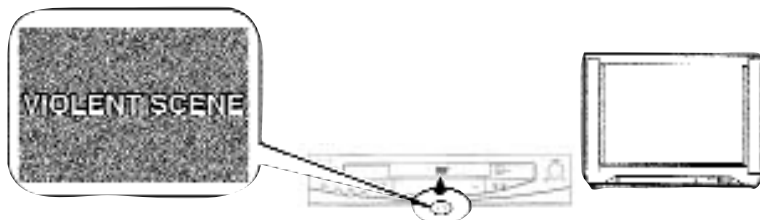
SETTING THE PARENTAL LOCK

DVDs equipped with the parental lock features are rated according to their content. The contents allowed by a parental lock level and the way a DVD can be controlled may vary from disc to disc. For example, if the disc allowed, you could edit out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc altogether.

1. Press STOP during playback

STOP

Press STOP once.

2. Press SETUP
The SETUP MENU appears on the TV screen.

SETUP

Language	Video	Audio	More Audio	Rating

3. Select Rating, press ENTER

Language	Video	Audio	More Audio	Rating

ENTER

4. Select Ratings again, press ENTER

Password	- - - -		1. Kid Safe
Rating		→	2. G
			3. PG
			4. PG-13
			5. PG-R
			6. R
			7. NC-17
			8. Adult
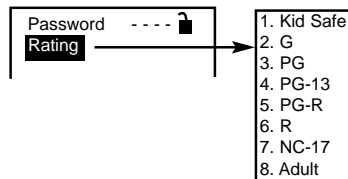
5. After select ratings,then select Password setting password.

ENTER

Password	- - - -
Rating	

6. Enter your password then press ENTER
   The pre-set password is 3308

7. Press SETUP to exit setup,
press PLAY to start.

SETUP

TO CHANGE YOUR PASSWORD:
1. Follow step 4 to select password.
2. Enter old password.
3. Enter new password.
4. Re-enter to confirm your new password.
5. Press ENTER.
6. Press SETUP.

Customizing the Function Settings

THE HT-100 ALLOWS YOU TO CUSTOMIZE THE PERFORMANCE TO
YOUR PERSONAL PREFERENCE.

```
                    ┌──────────────────┐
                    │   SETUP MENU     │
                    └──────────────────┘
```

| Language | Video | Audio | More Audio | Rating |
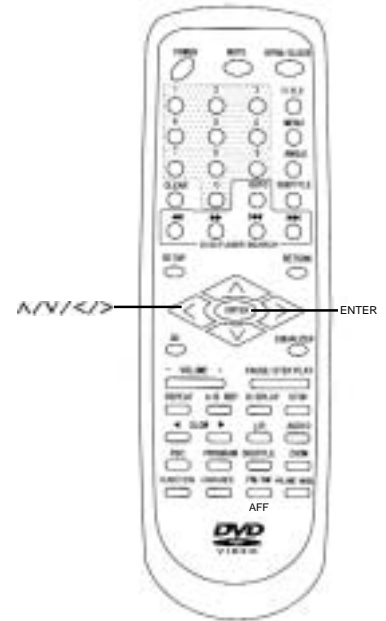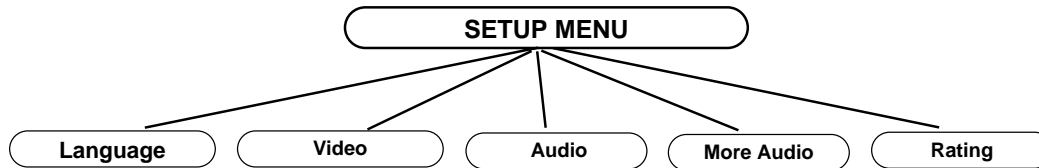
DISPLAYING THE SETUP MENU SCREEN

The SETUP MENU screen asks you to select a setting category from
Language, Video, Audio and Rating. The selected category will provide you
the setting details using the succeeding screen.

1. Press SETUP.

SETUP

**2. Press ∧/∨/</> to select category
(highlight), then press ENTER.**

ENTER

3. Press SETUP to normal playback.

SETUP

| Language | Video | Audio | More Audio | Rating |

Language

OSD Menu English
Subtitle Off
Audio English
DVD Menu English
Factory set

English
中 文
Français
Deutsch
Spanish
Italy

English
Chinese
Auto
Off

English
Chinese

English
Chinese

Ok

Video

TV Shape
TV System

4:3 Pan Scan
4:3 Letter Box
16:9

NTSC
PAL
AUTO

Audio

Analog out		Digital out
Dolby D	6 Channel	Raw
	2 Channel	PCM
		OFF
DTS	OFF	Raw
		OFF
MP3	2 Channel	PCM
		OFF
Others	6 Channel	Raw
	2 Channel	PCM
		OFF

More Audio

Prologic
Pink noise

Auto
On
Off

Of
Left
Center
Right
Left surr
Right surr
Subwoofer

Rating

Password   - - - -
Rating

1. Kid Safe
2. G
3. PG
4. PG-13
5. PG-R
6. R
7. NC-17
8. Adult

Notes

If you want to playback CD DTS you should setup on
"others" status.

What is MP3, VCD, and AFF?

WHAT IS MP3?

MP3 refers to a new format of music files available for playback over the internet. Because of the popularity to download music from MP3 websites onto ones home computer, APEX Digital is the first company to offer in a home DVD player, the ability to play back CD-R discs recorded with MP3 audio files.

WHAT IS VCD?

A VCD looks like an ordinary 5" CD with the same digital audio quality, plus good video capability. It is a new video format that offers a better picture quality than VHS, with over an hour of playing time.
Notice: When you playback a video CD, you must turn PBC OFF in order to stop the chapter/scene.

WHAT IS AFF?

AFF stands for APEX Full-screen Function. It allows you to fill the television screen viewing area when using a widescreen formatted DVD. Press the AFF/AM-FM button on your remote control,this will eliminate black bars on the top & bottom of the TV screen when viewing movies with an aspect ratio of 1.85:1 and minimize (but not eliminate) black bars on movies with a wider aspect ratio (2.35:1).

Before AFF

After AFF

NOTICE

AFF will not function in pause/stop mode.

Memo On Disc Output & PBC

DISCS AND OUTPUT SOUNDS

	DVD Video Discs							VCD	CD	MP3 CD
Sound recording system	Dolby Digital		MPEG 2		Linear PCM			MPEG	PCM44.1kHz	MP3
					48kHz	96kHz				
Audio setting on the setting screen	SPDIF /RAW	SPDIF /RAW	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM
ANALOG AUDIO OUT jacks	———	o	———	o	———	o	o	———	o	o
DIGITAL AUDIO OUT jack	Dolby Digital bitstream	PCM (48kHz)	MPEG 2 bitstream	PCM (48kHz)	PCM (48kHz)	PCM (48kHz)	———	PCM (44.1kHz)	PCM (44.1kHz)	PCM (44.1kHz)

ON VIDEO CD

This HT-100 supports the VIDEO CD with PBC (Version 2.0) (PBC) is the abbreviation for Play Back Control.)
You can enjoy two kinds of playback depending on type of disc.

TYPE OF DISC	HOW TO ENJOY
VIDEO CD without PBC (VERSION 1.1)	Audio and movie can be played back by operating the unit in the same way as the audio CD.
VIDEO CD with PBC (VERSION 2.0)	In addition to the operation of the VIDEO CD without PBC, you can enjoy a playback with interactive software and software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this manual may not work in some discs.

MPEG 1 AUDIO LAYER 3 DISC (MP3)

MP3 Audio Disc Play Back Capable	An MP3 audio disc can be played back by operating the unit in the same way as the audio CD.

Specifications

HT-100

Power supply	110V AC 60 Hz
Power consumption	20VA
Mass	3.5 kg
External dimensions	435mm x 97mm x 356 mm (W/H/D)
Signal system	MULTI/NTSC/PAL
Laser	Semiconductor laser, wavelength 650 nm

SUPPLIED ACCESSORIES

Audio cable (red and white)	1 pair
Remote control	1
Batteries (AAA)	2
Video cable (yellow)	1
Power cable	1
Owner's manual	1
AM loop antenna	1
FM wire antenna	1
Speakers	5
Subwoofer	1
Speaker cords	5mx4, 15mx2

FM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	87.50-108.00 MHz (50 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7MHz

AM tuner section

System	Tuner section: PLL quartz-locked digital synthesizer system
Tuning range	531-1602 kHz (9 kHz interval)
Antenna	Loop antenna

Video section

Inputs	Video:1 Vp-p 75 ohms
Outputs	Video:1 Vp-p 75 ohms
	S-Video: Y:1 Vp-p 75 ohms
	C: PAL 0.3 Vp-p 75 ohms
	NTSC 0.286 Vp-p 75ohms

Speakers

Speaker unit	70mm dia.cone type
Rated impedance	4 ohms
Dimensions (approx.)	115x 90 x125mm
Mass (approx.)	0.57 kg

Subwoofer

Speaker system	
Speaker unit	180 mm dia.cone type
Rated impedance	4 ohms
Dimensions (approx.)	355x160x355
Mass (approx.)	5.41 kg

Trouble Shooting Guide

Check the following guide for a possible correction to a problem before contacting customer service. Check FAQ at our website: www.apexdigitalinc.com.

SYMPTOMS AND CORRECTION

Symptom	Correction
No power	• Connect the power plug into the wall outlet securely.
No picture	• Verify the connection from the DVD video output to the TV video input. Then switch TV to appropriate mode (video 1) • Connect the video cable into the jacks securely. Refer to your television owners manual.
No sound	• Connect the audio cables into the jacks securely. • Verify the connection from the DVD audio output to the TV or receiver audio input. Then switch to the appropriate source on the receiver. Refer to your audio amplifier owners manual.
Rolling b/w picture	• From the SETUP MENU select "Video". • Adjust the vertical hold on your TV.
Black & White picture	• Damaged S connector (bent pin)
The playback picture has occasional distortion	• A small amount of picture distortion may appear because of a poor quality video/sound transfer to disc. This is especially true of some discs manufactured between 1997-1998.. • Scratched disc
Brightness is unstable or noises are produced on playback pictures	• Connect the HT-100 directly through the TV and not through any other source. What you're viewing is the effect of the copy protection circuitry required on all HT-100s. • If you don't have a video input on your TV, you must purchase an RF adapter from your dealer.
The HT-100 does not start playback	• Place the disc with the graphics side up • Place the disc on the disc tray correctly inside the guide. • Make sure the disc is free from scratches & fingerprints. • Press the SETUP button to turn off the menu screen. • Cancel the parental lock function or change the parental lock level. • Turn the power off then disconnect the power plug and reinsert it back into the wall. Retry again. • Use region 1 discs only.
MP3 won't read disc or it skips	• Reburn disc as the software edition used may not be compatible with the player. Check web site for instruction. • Check web site for instruction on availability of a firmware upgrade. • Use new editions of software such as Voyetra Audiostation 4, Adaptec's "Easy CD Creator" or NTI or Roxio's Toast Titanium. • Make sure MP3 file are not encoded with a variable bit rate such as provided by Real Networks.
The remote control does not work properly	• Replace the batteries with new ones. • Operate the remote control within about 7m.
AFF does not eliminate black bars	• AFF is designed to give a distortion free full screen image at the push of a button. Black bars will be eliminated on discs with an aspect ratio of 1.85:1. Wider aspect ratios, such as 2.35:1 produce larger bars that allow more information on the sides. These are minimized, not eliminated.

Limited Warranty

APEX PLAYERS
90 DAYS LABOR
ONE YEAR REPLACEMENT OF PARTS

WHO IS COVERED?

Proof of purchase is required to receive warranty service such as the original sales receipt showing original date of purchase from an authorized APEX Digital, Inc. dealer in N. America. Keep your original box and packaging in case your unit needs to be shipped to us. You will need to prepay shipping and APEX will pay the cost of shipping the unit back to you.

WHAT IS COVERED?

Warranty repair from the original date of purchase: One (1) year replacement of parts; 90 days limited labor warranty coverage.

If you don't have proof of purchase, your unit will be considered out-of-warranty & will be charged at a flat labor rate.

WHAT IS EXCLUDED?

Your warranty does not cover:
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of APEX Digital, Inc.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Incidental or consequential damages resulting from the product. (Some states do not allow the incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not.)

BEFORE REQUESTING SERVICE:

Check your owner's manual under "Troubleshooting Guide" and visit our website **www.apexdigitalinc.com** for the latest updates under FAQ.

ORDERING ACCESSORIES:

You may purchase a remote control ($20 U.S. or $35 in Canada), owners manual ($7), and/ or firmware upgrade, if applicable to your player ($10). Specify model number, name & address with a cashiers check made out to APEX Digital.

MODEL # _____   SERIAL # _____

WHERE IS SERVICE AVAILABLE?

Please contact   APEX DIGITAL, INC.
customer service: 2919 E. Philadelphia St., Ontario, CA 91761
                       (909) 930-1239 Monday-Friday 8:30am-5:00pm (California)
                       email: customerservice@apexdigitalinc.com

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.